

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

Claims 1-2. (Canceled)

- 1 3. (Currently amended) A power source circuit for a cell for controlling transfer of
2 electric energy from said cell to loads on a device, said power source circuit
3 comprising:
 - 4 a pair of output terminals;
 - 5 a cell voltage detecting circuit to detect a discharge voltage of said cell;[[,]]
 - 6 a discharge control controlling circuit;[[,]]
 - 7 an output voltage detecting circuit to detect an output voltage across said
8 output terminals and to generate a corresponding output voltage detection
9 signal;[[,]]
 - 10 a step-up DC-DC converter;[[,]]
 - 11 a switching circuit to alternatively switch a positive electrode of said cell to
12 either one of an said output terminals of said power source circuit or an inputting
13 section of said step-up DC-DC converter, and
 - 14 a power storing section connected to said output terminals mounted in an
15 outputting section of said power source circuit,
 - 16 wherein said step-up DC-DC converter has a first input connected to said
17 switching circuit, a second input to receive the output voltage detection signal
18 from said output voltage detecting circuit, and a step-up output connected to one
19 of said output terminals, and
 - 20 wherein said discharge control circuit controls the alternative switching of
21 said switching circuit to switch from the one of said output terminals to said
22 step-up DC-DC converter device employing said power source cell is operated in a
23 manner that, when the [[a]] discharge voltage of said cell becomes lower than an
24 operation lower limit voltage of said device, to be operated, a voltage output from
25 said power source circuit for said cell the output voltage across said output

26 terminals is made higher than said operation lower limit voltage of said device by
27 using said step-up DC-DC converter,
28 wherein an amount of voltage drop in said cell per unit time is employed
29 as a factor for detecting termination of discharge of said cell.

4. (Canceled)

1 5. (Original) The power source circuit for a cell according to Claim 3, wherein
2 said power storing section comprises an electric double layer capacitor.

6-14. (Canceled).

1 15. (New) The power source circuit for a cell according to Claim 3, wherein
2 termination of discharge of said cell is detected based on a voltage drop amount
3 of the discharge voltage of said cell per unit time.

1 16. (New) The power source circuit for a cell according to Claim 15, wherein,
2 when the termination of discharge of said cell has been detected, said switching
3 circuit switches from said step-up DC-DC converter to one of said terminals,
4 whereby said device operates to display warnings of operation termination.

1 17. (New) A cell pack comprising a cell, a power source circuit for said cell for
2 controlling transfer of electric energy from said cell to loads on a device, and a
3 case for housing the power source circuit and the cell therein, wherein said
4 power source circuit comprises:

5 a pair of output terminals;
6 a cell voltage detecting circuit to detect a discharge voltage of said cell;
7 a discharge control circuit;
8 an output voltage detecting circuit to detect an output voltage across said
9 output terminals and to generate a corresponding output voltage detecting signal;

10 a step-up DC-DC converter;

11 a switching circuit to alternatively switch a positive electrode of said cell to
12 one of said output terminals or said step-up DC-DC converter; and

13 a power storing section connected to said output terminals,

14 wherein said step-up DC-DC converter has a first input connected to said
15 switching circuit, a second input to receive the output voltage detection signal
16 from said output voltage detecting circuit, and a step-up output connected to the
17 one of said output terminals, and

18 wherein said discharge control circuit controls said switching circuit to
19 switch from the one of said output terminals to said step-up DC-DC converter, in
20 a manner that, when the discharge voltage of said cell becomes lower than an
21 operation lower limit of said device, the output voltage across said output
22 terminals is made higher than said operation lower limit voltage.

1 18. (New) The power source circuit for a cell according to Claim 17, wherein said
2 power storing section comprises an electric double layer capacitor.

1 19. (New) The power source circuit for a cell according to Claim 17, wherein
2 termination of discharge of said cell is detected based on a voltage drop amount
3 of the discharge voltage of said cell per unit time.

1 20. (New) The power source circuit for a cell according to Claim 19, wherein,
2 when the termination of discharge of said cell has been detected, said switching
3 circuit switches from step-up DC-DC convert to the one of said output terminals,
4 whereby said device operates warnings of operation termination.